

SECTION 1. Identification of the substance/mixture and of the company/undertaking**1.1 Product Identifier**

Product Name: SERBAC
Product Code/s: 0216-02x5
Product Use: Bactericidal kitchen cleaner.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Bactericidal kitchen cleaner. Manual process.
Uses advised against: Uses other than those identified are not recommended.

1.3 Details of the supplier of the safety data sheet

Supplier Advantage Chemicals Institutional Ltd
Unit 9 Strensham Business Park,
Strensham,
Worcestershire WR8 9JZ
Tel: 01684 273299 Web: www.advchem.co.uk Email: sales@advchem.co.uk

1.4 Emergency telephone number

Emergency advice Technical Information & Safety Data Sheets - 01684 273299, Monday - Friday 8.30am - 5.00pm
Available 24/7 from our website: www.advchem.co.uk

SECTION 2. Hazards identification**2.1 Classification of the substance or mixture**

The product has been classified and labelled in accordance with **Regulation (EC) No 1272/2008 [EU-GHS/CLP]**.

Classification

Physical Hazards: Not classified
Health Hazards: Not classified
Environmental Hazards: Not classified

2.2 Label elements

Pictogram:

Signal Word:

Hazard Statements

Precautionary Statements P102 Keep out of reach of children.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.

2.3 Other Hazards

This product does not contain any substances classified as PBT or vPvB

SECTION 3. Composition/information on ingredients

3.2 Mixtures

Ingredient	EC number	CAS number	Classification (EC) 1272/2008	Weight %
SODIUM METASILICATE PENTAHYDRATE	229-912-9	10213-79-3	Met Corr. 1 - H290; Skin Corr. 1B - H314; Eye Dam. 1 - H318; STOT SE 3 - H335	<1%
AMIDES, C8-C18 (EVEN NUMBERED) AND C18 (UNSATD.), N, N-BIS(HYDROXYETHYL	931-329-6	68155-07-07	Skin Irrit. 2 - H315; Eye Dam. 1 - H318; Aquatic Chronic. 2 - H411	<1%
ALKYL DIMETHYL AMINE OXIDE	931-292-6	308062-28-4	Acute Tox. 4 - H302; Acute Tox. 4 - H312; Skin Corr. 1B - H314; Eye Dam. 1 - H318; Aquatic Acute 1 - H400	<1%

The full text for all Hazard and Precautionary Statements are displayed in Section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

Inhalation

Remove affected person to fresh air ensuring one's own safety whilst doing so. Get medical attention if any discomfort continues.

Ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately. Show this Safety Data Sheet to medical personnel.

Skin contact

Remove all contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact

Rinse immediately with plenty of water for 15 minutes. Remove any contact lenses and open eye lids wide apart. Get medical attention if irritation persists after washing.

4.2 Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependant on the concentration and the length of exposure.

Inhalation

Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the nose, throat and airway.

Ingestion

Unlikely route of exposure without deliberate abuse. There may be soreness and redness of the mouth and throat. A soapy taste may be reported. May cause irritation/discomfort to mucous membranes.

Skin contact

Prolonged or repeated contact may cause mild skin irritation and redness..

Eye contact

May cause redness and irritation (stinging sensation) to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment:

Eye bathing equipment should be available on the premises.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Product is not combustible. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

When heated or in a fire - irritating vapours may be formed.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus (SCBA) and suitable protective clothing.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not attempt to take action without suitable protective clothing - see section 8 of this SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Do not discharge into drains or rivers. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Small spillages: Flush away spillage with plenty of water to clean spillage area.

Large Spillages: Contain and absorb spillage with sand, earth or other non - combustible material. Collect and place in suitable waste disposal containers and seal securely.

6.4 Reference to other sections

For personal protection see section 8.

For disposal considerations see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Usage procedures

Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Ensure there is sufficient ventilation of the area.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions

Store in a tightly closed original container, in a dry, cool and well ventilated place.

7.3 Specific end use(s)

Specific end uses

The identified uses for this product are detailed in Section 1.2.

Usage description

See Product Information Sheet & Label for detailed use of this product.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Ingredient comments DNEL and/or PNEC information is supplied by manufacturers of substances in accordance with REACH legislation (Regulation (EC) No 1907/2006), and is used to provide suitable risk reduction measures to limit exposure of the user of the substance to a non hazardous level. If the measured level of exposure by a route divided by the DNEL for the route is greater than 1, then further exposure controls should be implemented as described in section 8.2. Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

SODIUM METASILICATE PENTAHYDRATE (CAS: 10213-79-3)

DNEL	Workers - Inhalation; Long term systemic effects: 6.22 mg/m ³ Workers - Dermal; Long term systemic effects: 1.49 mg/kg bw/day Consumer - Oral; Long term systemic effects: 0.74 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 1.55 mg/m ³ Consumer - Dermal; Long term systemic effects: 0.74 mg/kg bw/day
PNEC	- Fresh water; 7.5 mg/l - Marine water; 1 mg/l - Intermittent release; 7.5 mg/l

AMIDES, C8-C18 (EVEN NUMBERED) AND C18 (UNSATD.), N,N-BIS(HYDROXYETHYL) (CAS:68155-07-7)

DNEL	Industry - Inhalation; Long term systemic effects: 73.4 mg/m ³ Industry - Dermal; Long term systemic effects: 4.16 mg/kg/day Consumer - Oral; Long term systemic effects: 0.74 mg/kg/day Consumer - Inhalation; Long term systemic effects: 21.73 mg/m ³ Consumer - Dermal; Long term systemic effects: 6.25 mg/kg/day
PNEC	- Fresh water; 0.007 mg/l - Marine water; 0.0007 mg/l - Intermittent release; 0.0024 mg/l - STP; 830 mg/l - Soil; 0.0189 mg/l - Sediment; 0.0424 mg/kg

SECTION 8. Exposure controls/personal protection (continued)

ALKYL DIMETHYL AMINE OXIDE (CAS: 308062-28-4)

DNEL	Professional - Dermal; Long term systemic effects: 11 mg/kg/day Professional - Inhalation; Long term systemic effects: 15.5 mg/m ³ 8h Professional - Dermal; Long term local effects: 0.27% General Population - Dermal; Long term systemic effects: 5.5 mg/kg/day General Population - Inhalation; Long term systemic effects: 3.8 mg/m ³ General Population - Oral; Long term systemic effects: 0.44 mg/kg/day
PNEC	- Fresh water; 0.0335 mg/l - Marine water; 0.00335 mg/l - Intermittent release; 0.0335 mg/l - STP; 24 mg/l - Soil; 1.02 mg/l - Sediment; (Freshwater) 1.02 mg/kg - Sediment; (Marinewater) 24 mg/kg

8.2 Exposure Controls

Protective Equipment



Appropriate engineering controls

Ensure there is sufficient ventilation of the area.

Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield. Ensure eye bath is to hand.

Hand protection

Wear protective impermeable gloves.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection

Respiratory protection not required unless the general level exceeds the Workplace Exposure Limit.

Self contained breathing apparatus must be available in case of emergency.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

State	pH (conc)	Odour
Liquid.	11 - 12	Characteristic.
Colour	Relative density	Solubility in water
Pink.	1.01 - 1.05	Soluble

9.2 Other Information

None.

SECTION 10. Stability and reactivity

10.1 Reactivity

Not expected to react when correctly stored and used. Mixing with other chemicals may produce unexpected reactions.

10.2 Chemical stability

No particular stability concerns.

10.3 Possibility of hazardous reactions

See sections 10.1, 10.4 and 10.5

10.4 Conditions to avoid

Excessive heat for prolonged periods of time.

10.5 Incompatible materials

Strong acids & bleach.

10.6 Hazardous decomposition products

Does not decompose when stored and used as recommended.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

General Information

See section 4.2

SECTION 12. Ecological information

Ecotoxicity

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1 Toxicity

Acute toxicity - fish

Normal use of the product is unlikely to pose a risk.

12.2 Persistence and degradability

The surfactant(s) used in this preparation comply (complies) with the biodegradability criteria as laid down in the European Detergents Regulation No 648/2004 as amended..

12.3 Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

12.4 Mobility in soil

Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6 Other adverse effects

Not determined.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Disposal operations	Discharge used solutions to drain. Do not mix with other chemicals. Rinse out empty container with water and consign to normal waste.
Disposal of packaging	Arrange for disposal by specialist disposal company.
NB	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14. Transport information

This product is not classified under the transport regulations

14.1 UN number

14.1 UN number

UN No. (ADR/RID)

UN No. (IMDG)

UN No. (ICAO)

14.2 UN proper shipping name

Proper shipping name (ADR/RID)

Proper shipping name (IMDG)

Proper shipping name (ICAO)

Proper shipping name (ADN)

14.3 Transport hazard class(es)

ADR/RID Class

IMDG Class

ICAO Class/Division

Transport Labels

14.4 Packing Group

ADR/RID Packing group

IMDG Packing group

ICAO Packing group

14.5 Environmental Hazards

Environmentally hazardous substance: No

Marine pollutant: No

14.6 Special precautions for user

Special Precautions None

Hazard Identification No (ADR/RID)

Tunnel restriction code

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant for a packaged product.

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances and mixtures.

Guidance

Workplace Exposure Limits EH40

15.2 Chemical safety assessment

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

SECTION 16. Other information

Key literature references and sources for data

Miscellaneous Material Safety Data Sheets from manufacturers.
GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances and mixtures.
ECHA - C&L Inventory database.

Revision Comments

Revision Date 10/11/2014 (Compilation date)

Revision Issue 1 - No previous validation

SDS Status The Hazard statements listed below in this section 16 relate to the raw materials (ingredients) in the product (as listed in section 3) and NOT the finished product itself. For the Hazard Statements relating to this product see section 3.

Hazard Statements in full H290 May be corrosive to metals
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
AISE = The International Association for Soaps, Detergents and Maintenance Products
Bw = Body weight
cc = Closed cup
CLP = Classification, Labelling and Packaging Regulation
DNEL = Derived no effect limit
DPD = Dangerous preparations directive
DRM = Dermal
dw = Dry weight
EC50 = Median effective concentration
EUH statement = CLP - specific hazard statement
GPG = Guinea Pig
HAM = Hamster
HMN = Human
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
IVN = Intravenous
LC50 = Median lethal concentration
LD50 = Median lethal dose
LogPow = logarithm of the octanol/water partition coefficient
MAM = Mammal
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified in 1978. (Marpol - marine pollution)
MUS = Mouse
oc = Open cup
OCC = Ocular/corneal
PCP = Physico-chemical properties
PBT = Persistent, Bioaccumulative and Toxic
PGN = Pigeon
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, express or implied, is made as to the completeness or continuing accuracy of this information. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.